

□ Prodn. of filter membrane - by etching highly pure aluminium foil and smoothing surface.

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PA (SHOA) SHOWA ALUMINIUM CO LTD

CYC 1

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The method is characterised by etching of highly pure aluminium foil, having at least 99.9% purity; and smoothing of the etching foil surface.

The smoothing treatment comprises pref. an electropolishing or chemical polishing. The smoothing treatment produces surface roughness of up to 5.0 microns Rmax and up to 2 microns Ra at 0.25 mm standard length in the curve of surface roughness of the treated aluminium membrane by JIS.B0601 method. The filter membrane is coated further with a gas sepn. membrane. USE/ADVANTAGE - The filter **membrane** is used for **cleaning**, purifying or sepn. of **gas** or **liq.** in the **mixt.**

In an example a sintered aluminium foil, comprising 99.9% aluminium and having 0.1 mm thickness, was treated by an electrolytic etching under the following conditions: electrolytic liq. being 5 wt.% HCl, temp. of the liq. 70 deg.C and electrolytic condition being DC, 15 A/dm² x 100 sec.. The given etching foil was made by an electropolishing as for a surface smoothness treatment: liq. compsn. H₂O₂: methanol = 1:4, liq. temp. being 5 deg.C and electrolytic condition being 100 V x 5 min..

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